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Kinney et al.(10) **Pub. No.: US 2021/0098944 A1**(43) **Pub. Date: Apr. 1, 2021**(54) **CONNECTOR ASSEMBLY HAVING A
LOW-IMPEDANCE GROUND CONNECTION**(52) **U.S. Cl.**CPC **H01R 13/6591** (2013.01); **H01R 33/74**
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(57)

ABSTRACT

An accessory for an electronic device includes a plug connector that is configured to connect to an electronic device when the electronic device is received by the accessory. The accessory also includes a receptacle connector at an exterior surface for coupling the accessory to a charging system when a mating connector is received within a receiving cavity of the receptacle connector. A bracket electrically and mechanically couples the plug connector to the receptacle connector. A ground spring is coupled to an exterior metallic shell of the receptacle connector and has a pair of spring arms that each have a distal end positioned within the receiving cavity such that when a mating plug connector is received within the receiving cavity a low-impedance ground path is formed between the mating connector and the plug connector.

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